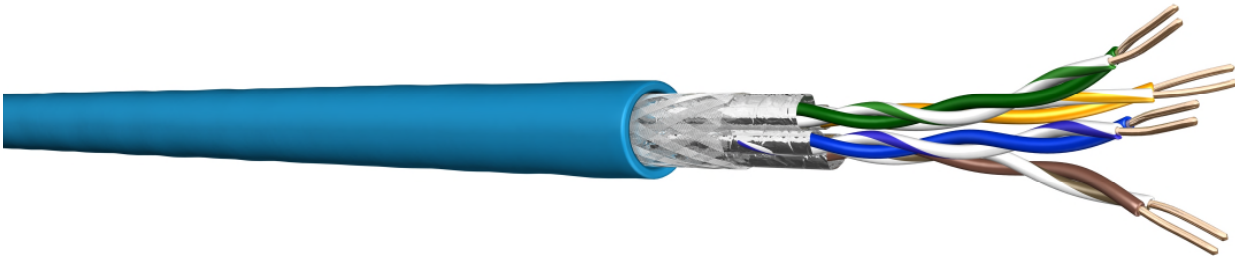


# UC400 HS23 Cat.6

## S/FTP AWG23/1 Installation Cable



### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM  
Power over Ethernet (PoE) / PoE+

### Standards

EN 50173-1; EN 50288-5-1  
ISO/IEC 11801; IEC 61156-5  
TIA/EIA-568-c.2  
IEEE 802.3at

### Flame resistance

PVC: IEC 60332-1  
LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034; Class Eca

### Construction

Conductor	bare copper wire Ø 0.56 mm (AWG23/1)
Insulation	Foamskin Polyethylene, Ø 1.38 mm
Twisting	2 cores to the pair
Pair screen	<b>High Performance-FTP:</b> Al-laminated plastic foil, patented wrapping of two pairs each
Cable lay up	2x2 pairs to the core
Screen	Copper braid tinned
Sheath	PVC alt. FRNC, blue RAL 5012

### Mechanical properties

Bending radius	without load	4 x D
	with load	8 x D
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

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## Electrical properties

at 20°C ± 5°C

Loop resistance		154 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 2000 MΩ *km	
Mutual capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km	
Mean characteristic impedance	at 100 MHz	100 ± 5Ω	
Nominal velocity of propagation		ca. 79 %	
Propagation delay		≤ 427 ns/100m	
Delay skew		≤ 12 ns/100m	
Test voltage	(DC, 1 min) core/ core and core/screen	1000 V	
Transfer impedance	at 1 MHz	12 mΩ /m	Grade 2
	at 10 MHz	10 mΩ /m	
	at 30 MHz	30 mΩ /m	
Coupling attenuation		80 dB	Type 2
Segregation classification acc. EN 50174-2		„d“	

## Electrical data (nominal)

acc. to Cat.6 (at 20°C)

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23

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## Technical data

Reference Code	Cable type	Brand name	Outer diameter mm	Euro Class	Fire load		Weight kg/km	Copper-content	Tensile force
					MJ/km	kWh/m			N
60015243	J-02YS(St)CY 4x2x0.56	UC400 HS23 Cat.6 S/FTP 4P	6.9	Eca	561	0.156	46	34	160
60011579	J-02YS(St)CH 4x2x0.56	UC400 HS23 Cat.6 S/FTP 4P LSHF		Eca	517	0.144	49		
60015313	J-02YS(St)CH 2x(4x2x0.56)	UC400 HS23 Cat.6 S/FTP 2x4P LSHF	6.9/14.0	Eca	1034	0.288	98	68	320

## Produkt Code Tabelle

Produkt Beschreibung	PG Referenz Code	PG Artikel Nummer
UC400 HS23 C6 S/FTP 4P LSHF 500DW	60011579	60011577
UC400 HS23 C6 S/FTP 4P LSHF 1000DW	60011579	60011578
UC400 HS23 C6 S/FTP 4P LSHF	60011579	60011579
UC400 HS23 C6 S/FTP 4P LSHF 100RW	60011579	60013268
UC400 HS23 C6 S/FTP 4P LSHF 2000DW	60011579	60013269
UC400 HS23 C6 S/FTP 4P PVC GY	60015243	60015243
UC400 HS23 C6 S/FTP 4P PVC 500DW	60015243	60010961
UC400 HS23 C6 S/FTP 2x4P LSHF	60015313	60015313
UC400 HS23 C6 S/FTP 2x4P LSHF 100DW	60015313	60015320
UC400 HS23 C6 S/FTP 2x4P LSHF 500DW	60015313	60013169
UC400 HS23 C6 S/FTP 2x4P LSHF 1000DW	60015313	60015318

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